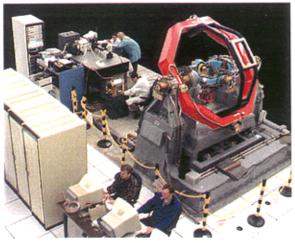


System Simulations and Development Directorate

CORE CAPABILITIES

Aerodynamics Computational Fluid Dynamics Distributed Simulation Force-on-Force Simulation Hardware-in-the-Loop Simulation Systems Analysis Virtual Simulators

Imaging Infrared Simulation System (I2RSS)

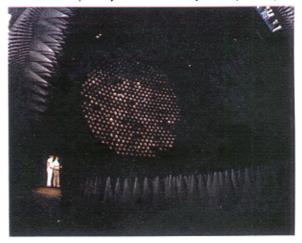


Real-time target scene generation and image projection in the Infrared (IR) spectral region is a technical challenge to provide Hardware-in-the-Loop simulation for the latest generation of IR guided missiles.

Virtual Simulator

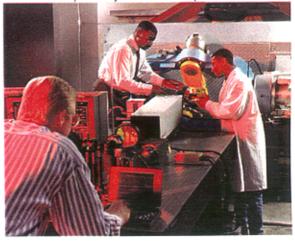


Person-in-the-Loop simulators allow evaluation of new equipment and tactics in the overall context of a synthetically realistic environment before a commitment is made to build the hardware. Radio Frequency Simulation System (RFSS)



This Hardware-in-the-Loop simulation facility radiates actual radar waveforms which represent target signatures, clutter, and multipath signals for checkout, evaluation, and flight test support for microwave radar guided missiles.

Optics System Development



Infrared image projection requires development of variable field-of-view collimators and special purpose image control optics